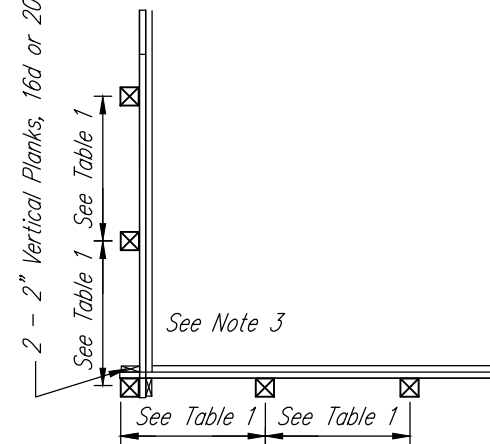
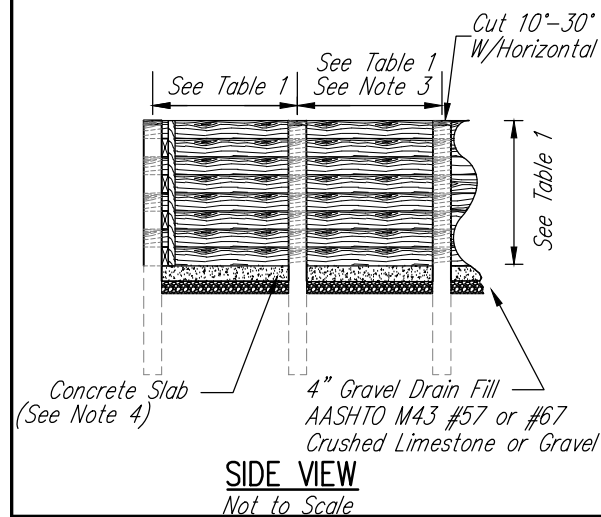


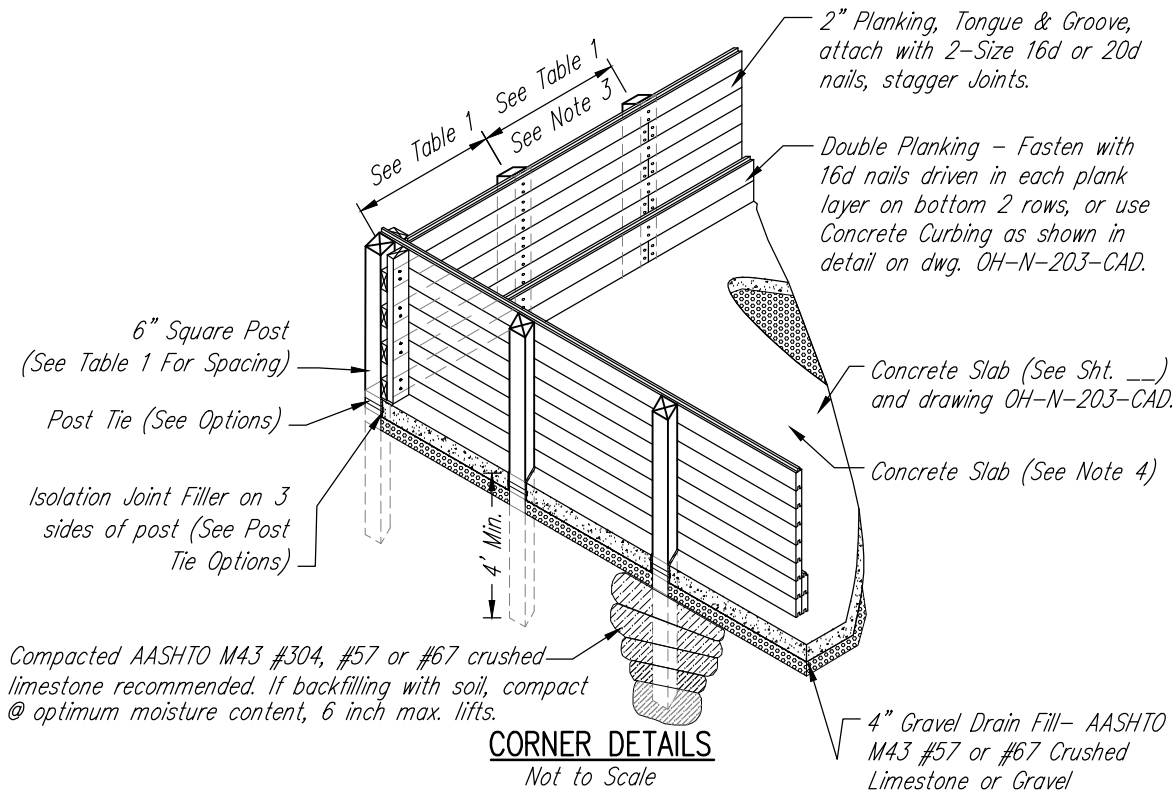
2 - 2" Vertical Planks, 16d or 20d Nails



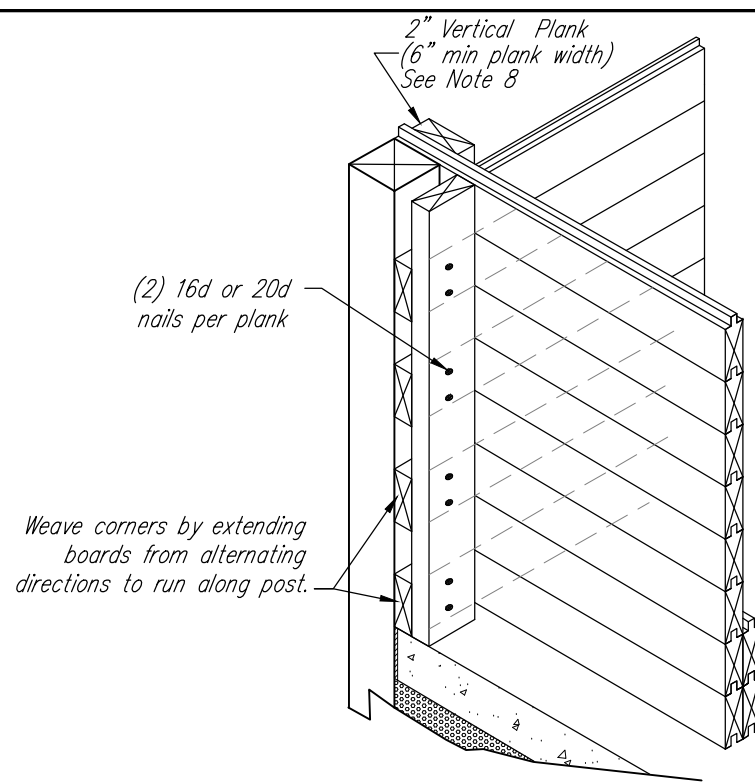
TOP VIEW
Not to Scale



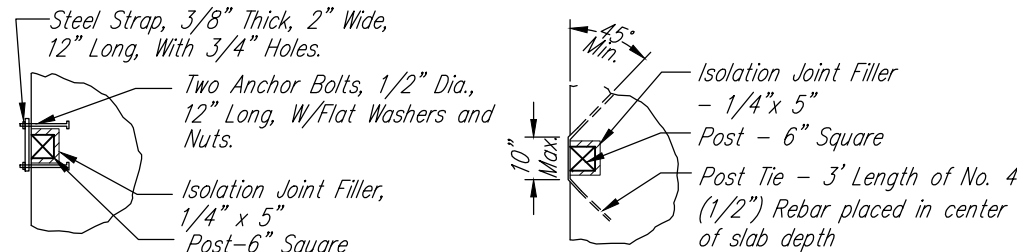
SIDE VIEW
Not to Scale



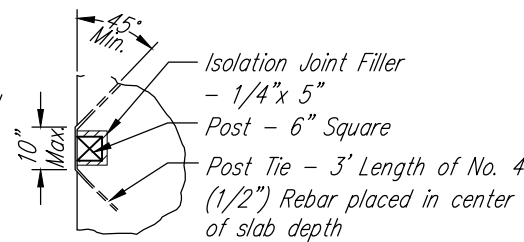
CORNER DETAILS
Not to Scale



CLOSE UP - ORTHO VIEW - CORNER
Not to Scale



ANCHOR TIE OPTION



REBAR TIE OPTION

Post Tie Option is not required for roof-supporting posts.

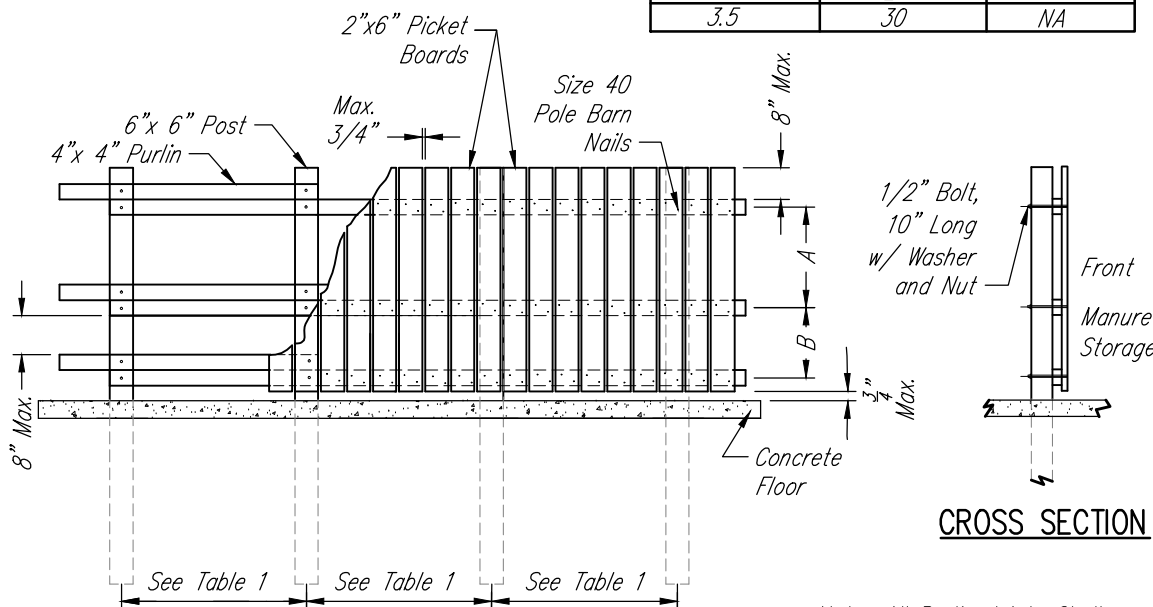
POST TIE OPTIONS
Not to Scale

CONSTRUCTION NOTES:

1. All posts shall be grade stamped No. 2 or better (See Table 1), 0.6 Pounds per Cubic Foot retention Chromated Copper Arsenate (0.6 PCF CCA), Southern Yellow Pine (S.Y.P.). [All other lumber No. 2 or better, S.Y.P., 0.4 PCF CCA., and all fasteners shall be galvanized.]
2. If any other ACQ or MCQ type Preservative Treatment is used, then retention rates shall be the equivalent as for CCA, but all fasteners shall be hot dipped galvanized or stainless steel.
3. Table 1 is for solid tongue and groove plank walls, manure loading at 60 PCF and compost at 35 PCF. Any changes must be approved by the State Conservation Engineer.
4. See NRCS "Concrete" Construction Specification, 210-VI-Engineering Field Handbook, Exhibit OH17-1 for concrete slab requirements.
5. Maximum inside height of wall shall be 5.5 feet. Back fill optional, maximum height = $2/3h$.
6. Post ties are not required when back filling to $2/3$ the wall height, h . Post ties are required on all wall posts, included corner posts.
7. All plank joints shall be 2" nominal thickness, stagger joints.
8. For corner assembly, saw tongue off horizontal planks to merge at post. Vertical plank width shall match width dimension of adjacent post.
9. Isolation joints shall be used where newly poured concrete abuts existing concrete or abuts to a different, non-yielding structure or material (e.g. buildings, or posts).
10. When using pneumatic nailing guns, the pneumatic equipment and equivalent nail sizes shall be approved by the NRCS engineer prior to use.

Notes: See Table at right for Wall Height and Maximum Purlin Spacings. Any changes must be approved by the State Conservation Engineer. Fasten Planks w/(6) Size 40 (5"Length) Pole Barn Nails.

TABLE - MAXIMUM PURLIN SPACING		
WALL HEIGHT Max. h (FT.)	MAX. PURLIN SPACING (IN.)	
	A	B
5.5	30	20
4.5	24	20
3.5	30	NA



FRONT VIEW
PICKET WALL DETAIL
Not to Scale

CROSS SECTION

Note: All Purlin Joints Shall be Overlapped by One Post Spacing.

REVISIONS		
DATE	APPROVED	TITLE
04/04	A.M. Brate	State Cons. Engineer
06/15	B.D. Jordan	St. Cons. Eng. (Acting)

TABLE 1 - MAXIMUM WALL HEIGHT FACILITIES WITHOUT A ROOF			Select Scenario to Use: (X)
MAXIMUM POST SPACING 6"x 6" No. 1 & 6"x 8" No. 2	MAXIMUM WALL HEIGHT, h (FT.)		
	Manure*	Compost*	
2.5	5.5	5.5	
3.0	5.0	5.5	
4.0	4.5	5.5	
4.5	4.0	5.5	
5.0	3.5	5.5	
6.0	2.5	4.5	
6"x 6" No. 2	Manure*	Compost*	
2.5	4.7	5.5	
3.5	4.5	5.0	
4.0	4.0	5.0	
4.5	4.0	4.5	
5.0	3.5	4.5	
6.0	2.5	4.0	

* Note: Manure loading = 60 lbs./ Cu.Ft.
Compost loading = 35 lbs./Cu.Ft.

* Note: For roofed structures, maximum wall heights are as follows:

	Manure	Compost
For roof spans $\leq 32'$	4.5'	5.5'
For roof spans $> 32'$	4.0'	5.0'

CLIENT: _____

United States Department of Agriculture
Natural Resources Conservation Service

File No. _____

Drawing No. OH-N-531-CAD

Sheet _____ of _____

County, Ohio

Township _____

Plank & Picket Wall Details

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____